

08470051 - GAU: 2438
PTO Serial No. 08470,051
Docket No. 5634.0268

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : John C. Harvey and
James W. Cuddihy
Serial No. : 08/470,051
Docket No. : 5634.0268
Filed : June 6, 1995
For : SIGNAL PROCESSING APPARATUS AND METHODS
Group Art Unit : 2699
Examiner : FAILE, A.

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Box: FEE-AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants respectfully request consideration of the references listed on the attached Form PTO-1449.

Applicants respectfully request that the Examiner consider the references cited on the PTO-1449 and that the Examiner indicate that the references have been considered in this application by returning a copy of the Form PTO-1449 with the Examiner's initials in the left column per M.P.E.P. § 609.

I. Description of the References

The references identified in this Supplemental Information Disclosure Statement ("Supplemental IDS") can be grouped into three categories. *First*, there are references identified in this Supplemental IDS that were cited to the PTO in connection with related applications, but were not cited in the instant application due to applicants' asserted

priority date of November 3, 1981. Applicants are now citing these references because the Examiner has challenged applicants' November 3, 1981 priority date. Applicants maintain, however, that this application is entitled to the benefit of the challenged November 3, 1981 filing date.

Second, applicants have identified in this Supplemental IDS references made of record in applicants' related applications that have not previously been made of record in the instant case.

Third, this Supplemental IDS identifies two new references that have not previously been identified in this application or any other related applications to date. These two new references are Japanese references that came to applicants' attention during the prosecution of applicants' applications pending in Japan. These new references are: JP 59-224988 and JP 61-174889.

II. Description of Corrections

In the course of preparing this Supplemental IDS applicants identified a number of miscellaneous inadvertent clerical errors contained in previously filed information disclosure statements. Applicants have corrected any such inadvertent errors with respect to references that are identified in this Supplemental IDS. With respect to inadvertent errors that occurred in information disclosure statements previously filed in this application applicants' identify and correct such inadvertent errors as follows:

- In the May 11, 2001 Information Disclosure Statement, the foreign patent reference previously identified as JP 59-50134 is correctly identified as JP 59-501340. Also in the May 11, 2001 Information Disclosure Statement, the foreign patent reference FR 79-03351 identifies the French application

number. The correct identification of this reference is publication number FR 2,417,226.

- With respect to foreign patent references in various information disclosure statements, information regarding the publication dates of these references may not have been supplied or may have been incorrectly identified. Additionally, applicants made inadvertent errors with respect to the provision of translations for certain foreign language references. A corrected complete list of all foreign references made of record in applicants' related pending applications is identified in Appendix A.
- Applicants' Information Disclosure Statement filed on April 7, 1997 contained a number of inadvertent errors. This Supplemental IDS corrects errors in the April 7, 1997 document. Accordingly, the April 7, 1997 IDS should be withdrawn from consideration and this Supplemental IDS should be substituted for the April 7, 1997 IDS.

III. Concise Explanations of Foreign Language References

Applicants unintentionally may not have provided concise explanations for certain previously identified foreign language references. Concise explanations for these references are provided in Appendix B. Additionally, in Appendix B applicants provide concise explanations for the two new Japanese references cited for the first time in this Supplemental IDS.

Applicants' submission of Appendix B meets the requirements regarding a concise explanation of foreign references as set forth in 37 CFR 1.98 and M.P.E.P. § 609.

IV. Conclusion

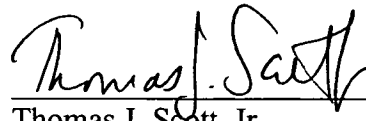
Pursuant to an agreement reached between the Examiner and applicants (see first Office Action issued in this application), applicants are not submitting copies of the references cited in this Supplemental IDS because applicants have previously provided copies of all of the references cited herein in related applications.

This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance. 37 C.F.R. § 1.97(c).

Submitted herewith is a check in the amount of \$180.00 to cover the fee for filing this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.17(p). Any deficiency in or overpayment of this fee should be charged or credited to Deposit Account No. 50-0206.

Date: March 18, 2002
HUNTON & WILLIAMS
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Respectfully submitted,



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT CITATION FORM	Attorney Docket No.	Serial No.
	05634.0268	08/470,051
	Applicant(s) John C. Harvey and James W. Cuddihy	
	Filing Date June 6, 1995	Group Art Unit 2699

UNITED STATES PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	1,992,271	02/26/35	Williams		09/17/31
	2,046,381	07/07/36	Hicks et al.	12/10/30	
	2,192,217	03/05/40	Bellamy, et al.	07/15/29	
	2,217,881	10/15/40	Allen		02/18/32
	2,236,077	03/25/41	Smith		05/29/30
	2,264,563	12/02/41	Bumstead		01/02/32
	2,418,127	04/01/47	Labin	178/44	
	2,563,448	08/07/51	Aram	178/5.1	
	2,570,209	10/09/51	Cotsworth, III	05/01/48	
	2,855,993	10/14/58	Rahmel	358/84	03/19/54
	2,995,624	08/08/61	Watters		03/11/59
	3,011,153	11/28/61	Haselton et al.	05/23/56	
	3,029,308	04/10/62	Adler et al.	09/22/58	
	3,071,649	01/01/63	Goodall	179/1.5	
	3,082,402	03/19/63	Scantlin		05/10/60
	3,107,274	10/15/63	Roschke	178/5.1	
	3,133,986	05/19/64	Morris et al.	178/5.1	
	3,251,051	05/10/66	Harries	340/345	
	3,366,731	01/30/68	Wallerstein	08/11/67	
	3,470,309	09/30/69	Nyberg	178/5.1	
	3,478,166	11/11/69	Reiter et al.	178/5.1	
	3,526,843	09/01/70	Sanville	329/104	
	3,546,684	12/08/70	Maxwell et al.	340/172.5	
	3,612,752	10/12/71	Banning, Jr.	178/5.1	06/22/66
	3,639,686	02/01/72	Walker et al.	178/5.8R	
	3,649,749	03/14/72	Gibson	178/5.6	
	3,651,261	03/21/72	Guanella	178/22	
	3,666,888	05/30/72	Sekimoto	178/69.5 TV	
	3,723,637	03/27/73	Fujio et al.	178/5.2R	
	3,746,799	07/17/73	Gentges	178/22	
	3,764,983	10/09/73	Stok	340/150	05/03/72
	3,769,579	10/30/73	Harney	325/31	
	3,773,979	11/20/73	Kirk, Jr. et al.	179/15 FD	
	3,778,058	12/11/73	Rausch	463/3	06/17/71
	3,789,131	01/29/74	Harney	178/5.1	
	3,794,922	02/26/74	Osborn et al.	325/53	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	3,795,763	03/05/74	Golding et al.	178/5.6	
	3,813,482	05/28/74	Blonder	178/5.1	
	3,826,863	07/30/74	Johnson	178/5.1	
	3,859,596	01/07/75	Jannery et. al.	325/31	
	3,882,289	05/06/75	Walding et al.	200/11 D	
	3,894,177	07/08/75	Howell et al.	178/5.6	
	3,896,262	07/22/75	Hudspeth et al.	178/5.1	
	3,896,266	07/22/75	Waterbury	179/1 SB	
	3,924,059	12/02/75	Horowitz	178/5.1	
	3,950,618	04/13/76	Bloisi	179/2 AS	
	3,958,081	05/18/76	Ehram et al.	178/22	
	3,975,585	08/17/76	Kirk, Jr. et al.	178/5.1	
	3,990,012	11/02/76	Karnes	325/308	
	3,996,586	12/07/76	Dillon et al.	340/347 DD	
	4,004,085	01/18/77	Makino et al.	340/324	
	4,013,875	03/22/77	McGlynn	235/150.2	
	4,015,286	03/29/77	Russell	358/13	
	4,019,201	04/19/77	Hartung et al.	358/124	
	4,020,419	04/26/77	Caspari et al.	325/421	
	4,024,575	05/17/77	Harney et al.	358/118	
	4,027,267	05/31/77	Larsen	329/106	
	4,027,331	05/31/77	Nicol	358/135	
	4,044,376	08/23/77	Porter	358/84	
	4,045,814	08/30/77	Hartung et al.	358/124	
	4,059,729	11/22/77	Eddy et al.	179/15 BF	06/09/76
	4,061,879	12/06/77	Wintzer	179/15 BA	09/29/75
	4,070,693	01/24/78	Shutterly	358/123	
	4,075,660	02/21/78	Horowitz	358/124	
	4,081,754	03/28/78	Jackson	325/396	
	4,086,434	04/25/78	Bocchi	79/2 AM	
	4,088,958	05/09/78	Suzuki et al.	325/396	
	4,095,258	06/13/78	Sperber	358/120	
	4,096,542	06/20/78	Pappas et al.	361/196	
	4,107,734	08/15/78	Percy et al.	358/84	
	4,112,317	09/05/78	Everswick	307/308	
	4,112,383	09/05/78	Burgert	329/50	
	4,114,841	09/19/78	Muhfelder et al.	244/166	
	4,124,887	11/07/78	Johnson et al.	364/107	
	4,126,762	11/21/78	Martin et al.	179/2A	
	4,142,156	02/27/79	Freund	325/309	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /MDN/

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,145,717	03/20/79	Guif et al.	358/121	
	4,156,253	05/22/79	Steudel	358/11	
	4,156,931	05/29/79	Adelman et al.	364/900	
	4,162,483	07/24/79	Entenman	340/147 R	04/01/77
	4,163,252	07/31/79	Mistry et al.	358/118	
	4,180,709	12/25/79	Cosgrove et al.	179/2 AM	
	4,199,781	04/22/80	Doumit	358/83	
	4,199,791	04/22/80	Corey	360/69	04/17/78
	4,199,809	04/22/80	Pasahow et al.	364/200	
	4,207,524	06/10/80	Purchase	375/22	
	4,214,273	07/22/80	Brown	358/188	
	4,216,497	08/05/80	Ishman et al.	358/84	
	4,222,068	09/09/80	Thompson	358/120	
	4,225,918	09/30/80	Beadle et al.	364/200	03/09/77
	4,246,611	01/20/81	Davies	358/194	
	4,247,947	01/27/81	Miyamoto	455/38	
	4,258,386	03/24/81	Cheung	358/84	
	4,272,784	06/09/81	Saito et al.	358/127	
	4,273,962	06/16/81	Wolfe	179/7.1R	
	4,295,155	10/13/81	Jarger et al.	358/12	
	4,301,542	11/17/81	Weintraub et al.	455/353	
	4,316,217	02/16/82	Rifken	358/86	
	4,318,047	03/02/82	Dawson	328/112	
	4,319,353	03/09/82	Alvarez, III et al.	370/104	02/29/80
	4,329,711	05/11/82	Cheung	358/114	
	4,335,426	06/15/82	Maxwell et al.	364/200	
	4,338,643	07/06/82	Tadokoro	360/135	
	4,340,906	07/20/82	den Toonder et al.	358/124	
	4,341,925	07/27/82	Doland	178/22.17	
	4,348,696	09/07/82	Beier	358/188	
	4,355,415	10/19/82	George et al.	455/185	
	4,358,672	11/09/82	Hyatt et al.	235/380	
	4,360,881	11/23/82	Martinson	364/493	
	4,361,903	11/30/82	Ohta	455/2	
	4,365,249	12/21/82	Tabata	340/825.3	09/29/80
	4,365,267	12/21/82	Tsuda	358/84	
	4,369,333	01/18/83	Gemperle et al.	178/22.13	
	4,380,027	04/12/83	Leventer et al.	358/147	12/08/80
	4,382,256	05/05/83	Nagata	340/825.44	
	4,383,273	05/10/83	Lunn	348/725	12/29/80
	4,385,384	05/24/83	Rosbury et al.	371/22	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,386,416	05/31/83	Giltner et al.	364/900	06/02/80
	4,386,436	05/31/83	Kocher et al.	455/151	
	4,388,644	06/14/83	Ishman et al.	358/84	
	4,392,135	07/05/83	Ohyagi	340/825.44	
	4,393,277	07/12/83	Besen et al.	179/2 A	
	4,405,946	09/20/83	Knight	358/192.1	
	4,408,345	10/04/83	Yashiro et al.	455/3	
	4,410,911	10/18/83	Field et al.	358/121	
	4,411,017	10/18/83	Talbot	455/26	
	4,412,244	10/25/83	Shanley, II	358/22	
	4,414,516	11/08/83	Howard	333/21A	
	4,414,621	11/08/83	Bown et al.	364/200	
	4,418,425	11/29/83	Fennel et al.	455/27	
	4,424,533	01/03/84	Rzeszewski	358/167	
	4,425,578	01/10/84	Haselwood et al.	358/84	
	4,425,579	01/10/84	Merrell	358/86	
	4,425,664	01/10/84	Sherman et al.	375/8	
	4,426,698	01/17/84	Pargee, Jr.	371/37	08/24/81
	4,427,968	01/24/84	York	340/310	
	4,429,385	01/31/84	Cichelli et al.	370/92	
	4,433,211	02/21/84	McCalmont et al.	179/1.5 S	
	4,434,438	02/28/84	Rzeszewski	358/167	
	4,439,785	03/27/84	Leonard	358/120	
	4,449,249	05/15/84	Price	455/45	
	4,450,442	05/22/84	Tanaka	340/814	
	4,450,481	05/22/84	Dickinson	358/114	
	4,450,531	05/22/84	Kenyon et al.	364/604	
	4,451,700	05/29/84	Kempner et al.	179/2 AS	
	4,454,538	06/12/84	Toriumi	358/86	
	4,454,543	06/12/84	Lund et al.	358/118	
	4,454,594	06/12/84	Heffron et al.	364/900	
	4,456,925	06/26/84	Skerlos et al.	358/85	
	4,458,109	07/03/84	Mueller-Schloer	178/22.11	
	4,458,268	07/03/84	Ciciora	358/120	
	4,458,315	07/03/84	Uchenick	364/200	
	4,460,922	07/17/84	Ensinger et al.	358/122	
	4,461,032	07/17/84	Skerlos	455/4	
	4,462,076	07/24/84	Smith, III	364/200	
	4,462,078	07/24/84	Ross	364/300	
	4,468,701	08/28/84	Burcher et al.	358/181	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /MDN/

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,471,352	09/11/84	Soulliard et al.	340/825.44	
	4,475,153	10/02/84	Kihara et al.	364/145	
	4,475,189	10/02/84	Herr et al.	370/62	
	4,476,535	10/09/84	Loshing et al.	364/480	
	4,476,573	10/09/84	Duckeck	455/45	
	4,477,830	10/16/84	Lindman et al.	358/1	
	4,484,027	11/20/84	Lee et al.	178/22.13	
	4,484,328	11/20/84	Schlaflly	370/85	
	4,486,773	12/04/84	Okubo	358/84	
	4,488,289	12/11/84	Turner	370/60	
	4,489,220	12/18/84	Oliver	179/2 AM	
	4,489,316	12/18/84	MacQuivey	340/700	
	4,491,945	01/01/85	Turner	370/60	
	4,494,142	01/15/85	Mistry	358/118	
	4,494,156	01/15/85	Kadison et al.	360/48	
	4,494,230	01/15/85	Turner	370/60	
	4,495,623	01/22/85	George et al.	371/38	09/02/82
	4,495,654	01/22/85	Deiss	455/151	
	4,496,171	01/29/85	Cherry	283/61	
	4,496,975	01/29/85	Noirel	358/147	
	4,496,976	01/29/85	Swanson et al.	358/147	
	4,498,098	02/05/85	Stell	358/22	
	4,503,287	03/05/85	Morris et al.	178/22.08	
	4,503,538	03/05/85	Fritz	371/28	
	4,504,831	03/12/85	Jahr et al.	340/870.03	
	4,507,680	03/26/85	Freeman	358/86	
	4,509,073	04/02/85	Baran et al.	358/86	
	4,510,623	04/09/85	Bonneau et al.	455/181	
	4,512,011	04/16/85	Turner	370/60	
	4,513,324	04/23/85	Poetsch et al.	358/214	
	4,520,392	05/28/85	Cox et al.	358/147	
	4,520,404	05/28/85	Von Kohorn	358/335	
	4,521,806	06/04/85	Abraham	358/86	
	4,527,194	07/02/85	Sirazi	358/86	
	4,531,020	07/23/85	Wechselberger et al.	178/22.08	
	4,532,540	07/30/85	Wine	358/12	03/28/83
	4,532,547	07/30/85	Bennett	358/148	
	4,533,948	08/06/85	McNamara et al.	358/122	
	4,533,949	08/06/85	Fujimura et al.	358/122	
	4,535,355	08/13/85	Arn et al.	358/123	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /MDN/

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,538,174	08/27/85	Gargini et al.	358/86	
	4,539,676	09/03/85	Lucas	370/60	
	4,540,849	09/10/85	Oliver	179/2 AM	
	4,543,616	09/24/85	Brooks	358/335	
	4,544,963	10/01/85	Jacoby et al.	360/40	
	4,546,382	10/08/85	McKenna et al.	358/84	
	4,546,387	10/08/85	Glaab	358/186	
	4,547,804	10/15/85	Greenberg	358/142	03/21/83
	4,550,407	10/29/85	Couasnon et al.	371/29	
	4,553,252	11/12/85	Egendorf	377/15	
	4,554,418	11/19/85	Toy	179/2 DP	
	4,554,584	11/19/85	Elam et al.	358/165	
	4,558,464	12/10/85	O'Brien, Jr.	455/4	
	4,562,306	12/31/85	Chou et al.	178/22.08	
	4,562,465	12/31/85	Glaab	358/120	
	4,562,495	12/31/85	Bond et al.	360/78	
	4,563,702	01/07/86	Heller et al.	358/119	
	4,566,034	01/21/86	Harger et al.	358/194.1	
	4,567,512	01/28/86	Abraham	358/86	
	4,570,930	02/18/86	Matheson	273/1 E	
	4,573,072	02/25/86	Freeman	358/86	
	4,573,151	02/25/86	Jotwani	370/56	
	4,574,305	03/04/86	Campbell et al.	358/86	
	4,575,750	03/11/86	Callahan	358/86	
	4,577,289	03/18/86	Comerford et al.	364/900	
	4,578,536	03/25/86	Oliver et al.	179/2 AM	
	4,578,718	03/25/86	Parker et al.	360/10.3	
	4,580,165	04/01/86	Patton et al.	358/148	
	4,583,128	04/15/86	Anderson, Jr. et al.	358/302	
	4,584,641	04/22/86	Guglielmino	364/200	
	4,586,134	04/29/86	Norstedt	364/200	
	4,588,991	05/13/86	Atalla	340/825.31	
	4,589,064	05/13/86	Chiba et al.	364/200	
	4,590,516	05/20/86	Abraham	358/86	
	4,591,248	05/27/86	Freeman	352/133	
	4,591,664	05/27/86	Freeman	179/6.06	
	4,591,906	05/27/86	Morales-Garza et al.	358/84	
	4,592,546	06/03/86	Fascenda et al.	273/1 E	
	4,593,376	06/03/86	Volk	364/900	
	4,594,609	07/10/86	Romao et al.	358/119	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /MDN/

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,595,950	06/17/86	Löfberg	358/122	
	4,595,951	06/17/86	Filliman	358/147	
	4,595,952	06/17/86	Filliman	358/47	
	4,596,021	06/17/86	Carter et al.	375/5	
	4,597,058	06/24/86	Izumi et al.	364/900	
	4,599,611	07/08/86	Bowker et al.	340/721	
	4,599,647	07/08/86	George et al.	358/122	
	4,600,918	07/15/86	Belisomi et al.	340/711	
	4,600,921	07/15/86	Thomas	340/825.31	
	4,602,279	07/22/86	Freeman	358/86	
	4,603,232	07/29/86	Kurland et al.	179/2 AS	
	4,605,964	08/12/86	Chard	358/147	
	4,605,973	08/12/86	Von Kohorn	358/335	
	4,608,456	08/26/86	Paik et al.	179/1.5 S	
	4,613,901	09/23/86	Gilhousen et al.	358/122	
	4,614,972	09/30/86	Motsch et al.	358/147	
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